| POSITION                  | INITIALS | ID NO. | DATE     |  |  |  |  |  |
|---------------------------|----------|--------|----------|--|--|--|--|--|
| FEE DETERMINATION         | E.11.    |        | 06-28-01 |  |  |  |  |  |
| O.I.P.E. CLASSIFIER       |          | 10     | 77-10-01 |  |  |  |  |  |
| FORMALITY REVIEW          | ~(a)     | 1080   | 08/14/01 |  |  |  |  |  |
| RESPONSE FORMALITY REVIEW | C.C      | 1114   | 1-,7-02  |  |  |  |  |  |
| 198                       | 72       | 947    | 03 25 52 |  |  |  |  |  |

## INDEX OF CLAIMS

| ✓ Rejected                   | N Non-elected |
|------------------------------|---------------|
| = Allowed                    | IInterference |
| — (Through numeral) Canceled | A Appeal      |
| → Restricted                 | O Objected    |

| Claim Date |            |      |         |            |  |   |          |                |          | Claim Date |                |          |          |               |          |  |          |                | Cla      | im       |                | Date         |          |              |          |                 |          |          |          |              |          |  |  |           |          |  |  |
|------------|------------|------|---------|------------|--|---|----------|----------------|----------|------------|----------------|----------|----------|---------------|----------|--|----------|----------------|----------|----------|----------------|--------------|----------|--------------|----------|-----------------|----------|----------|----------|--------------|----------|--|--|-----------|----------|--|--|
| 1          | 7          | _    | J       |            |  |   |          |                |          |            |                | П        |          |               |          | 죄  |          |                |          |          |                |              |          |              |          | 1               | - l      | - 1      |          | Ì            |          | ļ  |  | Ì         | - 1      | - 1  | ĺ                                      |
| ١_         | .   3      |      | 70/M/05 |            |  |   |          |                |          |            |                |          |          | _             | Original | 1/3/34   | -        |                |          |          |                |              |          |              |          | <del>ام</del> ا | Original | ı        |          |              |          |  |  |           |          |  |  |
| Final      |            | 함.   | হৌ      | -          |  |   |          |                |          |            |                |          |          | Final         | 울]       | 3  |          |                |          | - 1      |                | - 1          |          | -            |          | Final           | اچّا     | - 1      | l        | - 1          |          | - 1  |  | i         |          |  |  |
| 1          | 10         | 2 I' | -3      | _          | $\vdash$   | _   |          | _              | _        | $\vdash$   |                | $\vdash$ |          |               | 1        | 2  |          | $\vdash$       |          | $\dashv$ |                |              | -        | -            | -        |                 | 101      | $\dashv$ | -        |              | 一        | 一  |  | 十         | +        | $\dashv$   | $\dashv$                               |
|            | <u>/'\</u> | D.   | Υ!      |            | L.   |   | <u>_</u> |                |          | Ш          |                | Ш        |          | Щ             | 51       | ΥI   |          | Н              |          | $\dashv$ |                |              | -        | -+           | _        | <u> </u>        | 101      | -        |          | -            | $\dashv$ | $\dashv$   | $\dashv$                                     | $\dashv$  | -        | $\dashv$   | $\dashv$                               |
|            | 1.         | 2    | 11      |            |  |   |          |                |          |            |                |          |          | Ш             | 52       | 44   |          |                | _        | $\Box$   | _              | _            | -        |              |          | <u> </u>        | 102      | _        |          |              |          | $\dashv$   | -  | $\dashv$  | $\dashv$ | -  |  |
| Г          | Τ          | 3    | 71      |            |  |   |          |                |          |            |                | 1        |          |               | 53       | U  |          |                |          |          |                |              |          |              |          |                 | 103      |          |          |              | _        |  | _  | _         | _        | _  | _                                      |
| $\vdash$   | ╅          | 4    | Ħ       | _          |  | М   | _        |                |          |            |                |          | _        |               | 54       | 7  |          |                |          |          |                |              |          |              |          | L_              | 104      |          |          |              |          |  | l  |           | $\Box$   |  |  |
| -          |            | 5    | Ħ       |            | $\vdash$   | -   |          |                | _        | _          |                | П        | -        |               | 55       |  |          |                |          |          | $\neg$         |              | $\Box$   |              |          |                 | 105      |          |          |              | İ        |  |  |           |          |  |  |
| $\vdash$   |            | 6    | ╂       |            | $\vdash$   | -   | Н        | $\vdash$       |          | $\vdash$   | ┢              |          |          | -             | 56       | 7  |          |                |          |          | $\neg$         |              | ヿ        |              | $\neg$   |                 | 106      |          |          |              |          |  |  | П         | П        | П  | $\neg$                                 |
| $\vdash$   |            |      | H       |            | -  | H   | H        | -              | -        | $\vdash$   | -              | H        |          | ┝┈            | 57       | -#   | -        | Н              | -        |          | 一              | T            | 寸        | $\dashv$     | _        |                 | 107      |          |          |              |          |  | ╗  |           | $\neg$   | 7  | $\neg$                                 |
| <b>L</b>   | _          | 7    | 41      |            | Ļ  | ш   | L        | -              | $\vdash$ |            | _              | H        |          | <u> </u>      | 58       | -H   | $\dashv$ | Н              | -1       | $\dashv$ | $\dashv$       | $\dashv$     | -+       | $\dashv$     | $\dashv$ | $\vdash$        | 108      |          |          |              | _        | $\dashv$   | —t   | $\neg$    | ┪        | 7  |  |
| L          |            | 8    | Ц       | _          | <u> </u>   |   |          | _              |          | L          | _              | $\vdash$ |          | -             | _        | 4  | _        | Н              | -        | $\vdash$ | ⊣              |              | $\dashv$ |              | $\dashv$ | $\vdash$        | 109      | -        | -        | $\dashv$     | -        | $\dashv$   | $\dashv$                                     | -+        | ┪        | -+   | $\dashv$                               |
| L          |            | 9    | Ц       |            | L  |   |          |                |          |            |                | _        |          |               | 59       | H  |          | -              | _        | $\Box$   |                |              | -        |              | $\dashv$ | <u> </u>        |          |          |          |              | -        | $\dashv$   | $\dashv$                                     | -         |          | $\dashv$   | $\dashv$                               |
|            |            | 10   | Н       |            |  |   |          |                |          |            | L              |          |          |               | 60       | Ц  | Ш        | Щ              |          | $\Box$   | _              |              |          |              | _        | -               | 110      |          |          | Щ            | -        | _  |  |           | $\dashv$ | }  | $\dashv$                               |
| Г          | 1          | 11   | П       |            |  |   |          |                | L        | L          | L              |          |          |               | 61       | Ш  |          | Ш              |          | Ш        | _              |              |          | _            | _        |                 | 111      | _        |          | Ш            | _        |  |  | _         | -        |  | $\dashv$                               |
| 下          | 1          | 2    | П       |            |  |   |          |                |          |            |                |          |          |               | 62       |  |          | $\Box$         |          |          |                |              |          | _            | _        | $\perp$         | 112      |          |          | Ш            |          |  |  | $\perp$   | _        | _  | _                                      |
| H          |            | 13   | Ħ       |            | Ι  | T   |          |                |          | T          | $\overline{}$  | П        |          |               | 63       | П  |          |                |          |          |                |              | 7        |              | ]        | L               | 113      |          |          |              |          |  |  |           |          |  |  |
| $\vdash$   |            | 14   | Н       | -          | -  |   | -        | Н              | _        | Н          | _              | П        |          | $\overline{}$ | 64       | 1  |          |                |          | $\Box$   |                |              | T        | 7            |          |                 | 114      |          |          |              |          |  |  |           | l        |  | ┚                                      |
| $\vdash$   |            | 15   | Н       | -          | -  | -   | -        | -              | ├        | H          | $\vdash$       | $\vdash$ |          | $\vdash$      | 65       | +  | $\vdash$ | Н              |          | $\vdash$ |                |              | 1        | _            |          |                 | 115      | $\neg$   |          |              |          |  | П  |           |          |  | $\neg$                                 |
| $\vdash$   | _          | _    | H       | -          | -  | -   | -        | $\vdash$       | ┝┯       | $\vdash$   |                | $\vdash$ |          | $\vdash$      | 66       | +  | -        | Н              | $\vdash$ | Н        |                | $\dashv$     | +        | _            | $\dashv$ |                 | 116      | _        |          | П            |          | $\neg$   |  |           | 1        | $\neg$   | ヿ                                      |
| <u></u>    |            | 6    | H       | <u> </u>   | <del>                                     </del> | <u> </u>  | <u> </u> | $\vdash$       | ⊢-       |            | <del> </del> — | $\vdash$ |          | $\vdash$      | 67       | +  | -        | $\vdash$       | $\vdash$ | $\vdash$ |                | $\dashv$     |          | $\dashv$     | $\dashv$ | $\vdash$        | 117      |          | _        |              | $\vdash$ | $\vdash$   | $\dashv$                                     | $\vdash$  |          | $\dashv$   | $\dashv$                               |
| L          |            | 17   | Ш       | <u>L</u> . | 1_   | Ш   | <u> </u> | <u> </u>       | <u> </u> |            | <u> </u>       | <u> </u> |          | L             |          | +  | <u> </u> | Н              | $\vdash$ | Н        |                | _            | -        | $\dashv$     | -        | -               | 118      |          | —        | H            | Н        | $\vdash$   | $\dashv$                                     | $\vdash$  | -        | -  | $\dashv$                               |
| L          |            | 18   | Ц       | _          | L  |   | L        |                |          | L          | 乚              | <u> </u> |          | L             | 68       | 4  | Щ        | $\vdash$       | Ш        | Щ        | Ш              | -4           | _        |              | -        | $\vdash$        |          | -        | _        | H            | _        | $\vdash$   | $\vdash$                                     | $\vdash$  | -        | -  |  |
| Г          | T          | 19   | П       |            | ٠,   |   |          |                |          |            |                |          | }        |               | 69       | Ш  |          |                |          |          | - 1            |              | _        |              | _        | <u> </u>        | 119      |          |          | _            |          |  |  | _         | $\dashv$ | -  |  |
| 1          | 1,         | 20   | 1       | Г          |  |   | _        |                | Г        |            |                | Π        | 1        | Г             | 70       | T  |          |                |          |          |                |              |          |              | - 1      |                 | 120      |          |          |              |          |  |  |           |          |  |  |
| $\vdash$   |            | 21   | ╁       | ٠.         | ┢  | ⊢   | ├        | -              | ┢        | -          | ╌              | $\vdash$ | 1        | -             | 71       | +  | т        | Н              |          | Н        |                |              |          |              |          |                 | 121      |          |          |              |          |  |  |           |          |  |  |
| -          | _          | _    | +       | <u> </u>   | -  | -   | ⊢        | <del>  -</del> | H        | ├          | ⊢              | ╀        | ł        | -             | 72       | -  |          | -              | H        | -        | -              | -            | H        | -            | $\neg$   |                 | 122      |          |          |              |          |  |  |           |          |  | $\neg$                                 |
| $\vdash$   |            | 22   | $\perp$ | Ŀ          | ┞-   | _   | ļ        | -              | ├-       |            | ⊢              | ⊢        | Į.       | ⊢             | 73       | ₩  | -        | H              |          |          | -              |              | $\dashv$ | $\dashv$     |          |                 | 123      |          |          |              |          |  | _  | Н         |          | _  | 1                                      |
| L          |            | 23   | L       | _          | <u> </u>   | _   | L        | _              |          | <u> </u>   | ١.             | ļ_       |          | _             |          | Н-   | -        | ├              | -        |          | -              |              |          | 1            | $\dashv$ | -               | 124      |          |          | $\vdash$     |          | _  |  | -         | -        |  | $\dashv$                               |
| 1          |            | 24   | L       |            |  |   | L        |                | L        | _          | L.             | 1_       | -        | -             | 74       | 1  | Ļ        | ₽              | <u> </u> | <u> </u> | _              |              | Н        | $\vdash$     | -        | -               |          | $\dashv$ | _        |              | $\vdash$ |  | -  | Н         |          | $\dashv$   | $\dashv$                               |
| T          | T          | 25   | T       |            | 1  |   |          |                | L        | _          | <u> </u>       |          | 1        |               | 75       | _  |          | Ļ              | _        |          |                |              | Ш        | Ш            | _        | $\vdash$        | 125      | _        | _        | <u> </u>     | ⊢        | -  | $\vdash$                                     | H         | _        | -  | $\vdash$                               |
| Г          | 1          | 26   | Т       | П          | Ţ .  |   | Г        | Г              | Γ.       | -:-        | Г              | F        | Ì        |               | 76       |  |          | <u> </u>       | *        |          |                |              | Ш        |              | Ш        | L               | 126      |          |          | _            | L.       |  | _  |           |          | -  | Н                                      |
|            | 1          | 27   | +       |            | 1  | Т   | Π        | Τ              |          |            | Ι              |          | 1        |               | 77       |  |          | Ī              | 1        |          |                | 1            |          | _            |          |                 | 127      |          |          |              | _        |  | _  |           |          |  | Щ                                      |
| -          |            | 28   | +       | ١.         | 1  | Т   | 1        | <b>†</b>       | 1        | $\top$     | 1              | Τ        | 1        |               | 78       |  |          |                | Г        |          |                |              |          |              |          | ļ               | 128      |          |          |              |          |  | L  | $L_{L}$   |          |  | Ш                                      |
| ╌          |            | 29   | +       | ╁          | +-   | +   | -        | +              | ╁        | +          | +              | t        | 1        | $\vdash$      | 79       | t  | ┢        | 1              |          |          |                |              |          | П            | П        |                 | 129      |          | П        |              |          |  | ļ  |           |          |  |  |
| -          |            |      | +       | ╄          | ╁  | ╁   | ╁        | ┼-             | ╁        | ╁┈         | ╁              | ╁        | 1        | -             | 80       | ╁  | ╁╴       | 1              |          | 1        | ┪              |              |          | Ι-           | Н        |                 | 130      |          | _        |              | Π        | Γ  | П  |           |          |  |  |
| L          |            | 30   | +       | ╄          | 4  | ⊢   | ╄-       | +-             | ┼        | ╄          | ┼              | ╀        | -        | 1             | 81       | $\vdash$   | ├-       | ╁              | $\vdash$ | +        | $\vdash$       | ├            | $\vdash$ | $\vdash$     | Н        | -               | 131      | $\vdash$ | -        | T            | $\vdash$ | ┢  | $\vdash$                                     | $\vdash$  |          |  | $\Box$                                 |
| L          |            | 31   | 1       | Ŀ          | ╄-   | ┺   | 1        | ↓_             | ╄        |            | ↓_             | ╄        | 4        | H             | _        | ⊢  | ╌        | ⊢              | -        | ┼-       | ⊢              | ├            | -        | ├            | H        | $\vdash$        | 132      | $\vdash$ | -        | ╁╌           | ╁        | ├  | ┢╌   | 一         | $\vdash$ |  | $\vdash \vdash$                        |
| L          |            | 32   | $\perp$ | L          | 1_   | 1_  | 1        | ļ              | 1        | 1          | 1              | ╄-       | 1        | $\vdash$      | 82       | ₩  | <b>↓</b> | ╄              | ₽-       |          | $\vdash$       | <del> </del> | 1        | <del> </del> | Н        | -               |          |          | -        | +-           | $\vdash$ | <del>                                     </del> | +-   | +         | -        | <del>                                     </del> | $\vdash$                               |
|            |            | 33   | Ш       | L          | ;  | L   |          | 1_             | _        | $\perp$    | ┸              | $\perp$  | 1        | L_            | 83       | 1  | ↓_       | <del> </del> _ | <b>!</b> | ↓_       | <del> </del> _ | $\vdash$     | ⊢        | <u> </u>     | $\vdash$ | <u> </u>        | 133      |          | -        | +-           | ╀        | ├  | -  | +         | $\vdash$ | -  | $\vdash \vdash$                        |
| Г          | T          | 34   | Π       |            |  | 1   | 1        |                | $\perp$  | $\perp$    |                | $\perp$  | 1        |               | 84       | $oldsymbol{ol}}}}}}}}}}}}}}}}}}$ | 1_       | 1_             | _        | 1_       | <u> </u>       | <u> </u>     | $\vdash$ | <u> </u>     | Ш        | _               | 134      |          | -        | +-           | ⊢        | -  | <del> </del>                                 | +-        | -        | -  | ⊢⊢                                     |
| Γ          | 1          | 35   | П       | Π          | 1  |   | Г        | Г              |          |            |                |          | ]        | L             | 85       |  |          | 1_             | _        |          | L              | <u> </u>     | $\perp$  | <u></u>      |          | $\perp$         | 135      |          | L        | ↓            | ┞-       | $\vdash$   | $\vdash$                                     | ⊢         | ├-       | ├-   | $\vdash$                               |
| ٦          | 7          | 36   | ۲       |            | $\top$   |   |          |                | 1        |            |                | 1.       | ]_       |               | 86       |  |          | <u></u>        |          |          |                |              | _        | L            |          |                 | 136      |          | <u> </u> | <u>. </u>    | <u> </u> | <u> </u>   | -  | <u> -</u> | -        | _  | 니                                      |
| - -        | -1         | 37   | ۲       | 1=         | 1  | 1=  | +        | T              | ✝¯       | T          | ✝              | T        | 1        |               | 87       | T  | T        | Τ              | Т        |          |                |              |          | Γ            |          |                 | 137      | 1_       | L        |              |          | L  | $\perp$                                      | 乚         | L_       | <u> </u>   | Ш                                      |
| ⊢          |            | 38   | H       | +-         | +  | +   | ╁        | ╁              | +        | +-         | +              | +-       | 1        | -             | 88       | 1  | †-       | 1              |          | 1        | 1              | 1            | T        | Т            | $\Box$   |                 | 138      |          |          |              |          |  |  |           |          |  | $\sqcup$                               |
| H          |            |      | Н       | ╁          | +-   | +   | +-       | +              | +        | +          | +-             | +        | 1        | +             | 89       |  | +        | 1              | +        | 1        | T              | 1            |          |              | П        |                 | 139      |          |          | T            |          |  |  |           |          | 1  |  |
| ┝          |            | 39   | H       | +-         | +  | +   | +        | +              | +-       | +          | +              | +-       | -        | -             | 90       | _  | +        | +              | +        | +        | $\vdash$       | +            | +        | 1            | Н        |                 | 140      |          |          | 1            | 1        | T  | 1  |           |          |  | П                                      |
| L          |            | 40   | Ц       | $\perp$    | 1  | 丄   | 1        | 1              | 1        | 1_         | 1              | 1_       | 4        | $\vdash$      |          | -  | 4-       | $\bot$         | +        | +        | +-             | 1-           | +-       | +            | H        | -               | 14       |          | +-       | +            | +        | +  | ┰  | +         | 1        | <del>                                     </del> | Н                                      |
| Γ          | 0          | 41   | ١Ī      | Γ          | 1  | 1   | 1        |                | 1.       | $\perp$    |                |          |          | L             | 91       |  | _        | 1_             | 1_       | $\perp$  | L              | 1_           | <u> </u> | 1_           | $\vdash$ | <u> </u>        |          |          | -        | +            | 1-       | ┾-   | -  | +-        | +-       | -  | $\vdash$                               |
| 1          |            | 42   | Ħ       | T          | ┰  | Τ   | Τ        | 1              | Τ        |            | T              | T        | 1        |               | 92       | :[_  |          |                | L        |          | L              |              | _        | L            | Ш        |                 | 14       |          | 1_       | <del> </del> | $\perp$  | 1  | $\vdash$                                     | 1         | ⊢        | 1  | ₩                                      |
| ۱ ۱        | -          | 43   | H       | 十          | +-   | +   | +-       | $\top$         | +        | $\top$     | 1              | T        | 1        |               | 93       | 3  | T        | T              | Т        | T        | Γ              |              |          | L            |          |                 | 14       |          | L        | Ĺ            | 上        | $\perp$  | _  | $\perp$   | <u> </u> | $\vdash$   | $\vdash$                               |
| ۲ <u>۰</u> | $\dashv$   | 44   |         | +          | ╅  | +   | +        | +              | +        | +          | +-             | +        | 1        |               | 94       | :  | 7        | $\top$         | T        | $\top$   | Т              | T            |          | Г            | $\Box$   |                 | 14       | 4        |          | İ            |          | 1  | L  | _         | L.       | L  | $\perp$                                |
|            | -          | 44   | H       | ╫          | +  | +   | ╁        | +              | +        | +          | ╁              | +        | $\dashv$ |               | 95       |  | +        | +-             | +        | 十        | +-             | $\top$       | $\top$   | 1            |          |                 | 14       | 5        | T        | 1            |          | Τ  | Г  | Γ         |          |  |  |
| 11         |            |      |         | 4-         | 4  | +   | +-       | +              | +-       | +          | ╀              | +        | 4        | -             | 96       |  | +        |                | -        |          | 1              | 1            | 1        | 1            |          |                 | 14       |          | 1        |              |          | 1  |  |           | 1        | 1  |  |
| į          | _          | 46   | П       | 4          | 4  | +   | 1        | +              | +-       | +          | +              | +        | 4        | $\vdash$      |          |  | +-       | +              | +        | +        | +              | +            | +        | +            | H        | -               | 14       |          | +        | †-           | 1        | +  | $\top$                                       | $\top$    | T        | Τ  | T                                      |
| ١Ĺ         | -          | 47   | П       | $\perp$    | $\perp$  | $\perp$   | _        | 丄              | $\perp$  | $\perp$    | ┸              | 1        | 4        | $\vdash$      | 97       |  | +        | +              | +        | +-       | +              | +            | ╀        | +-           | +        | $\vdash$        | 14       |          | +        | +            | ╁        | +  | ╁  | +         | +        | +  | T                                      |
| Γ          |            | 48   |         | Ī          | J  | $oldsymbol{oldsymbol{oldsymbol{oldsymbol{\Box}}}$ |          |                | 1        | $\perp$    |                | $\perp$  | 1        | $\perp$       | 98       |  |          | $\perp$        | 4_       | 4        | 4_             | <del> </del> | 1        | +            | 1        | <u> </u>        |          | -        | +-       | +-           | +-       | +  | +-   | +-        | +-       | +  | +                                      |
| Γ          |            | 49   | П       | Τ          | T  | T   | Τ        | T              |          |            | J              |          |          | L             | 99       |  | $\perp$  | 1              | 1        | 1        | $\perp$        | 1            | 4-       | ╄-           | $\sqcup$ | <u> </u>        | 14       |          | +        | +            | +-       | +-   | +-   | +         | ╁        | +-   | +-                                     |
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